

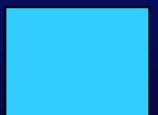
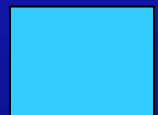
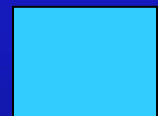
Theatre Information Architectures

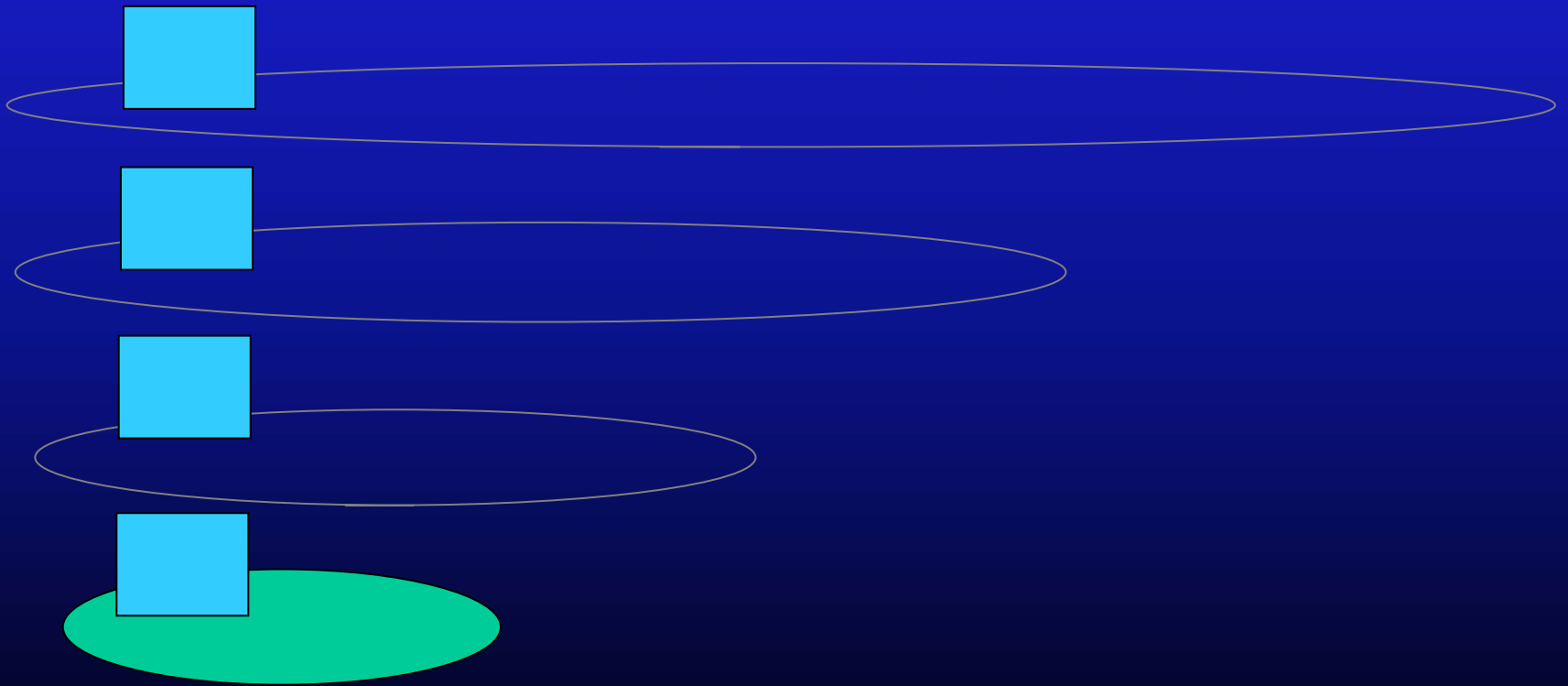
**Dr Dave Sloggett &
Brig (Retd) Chris Holtom**

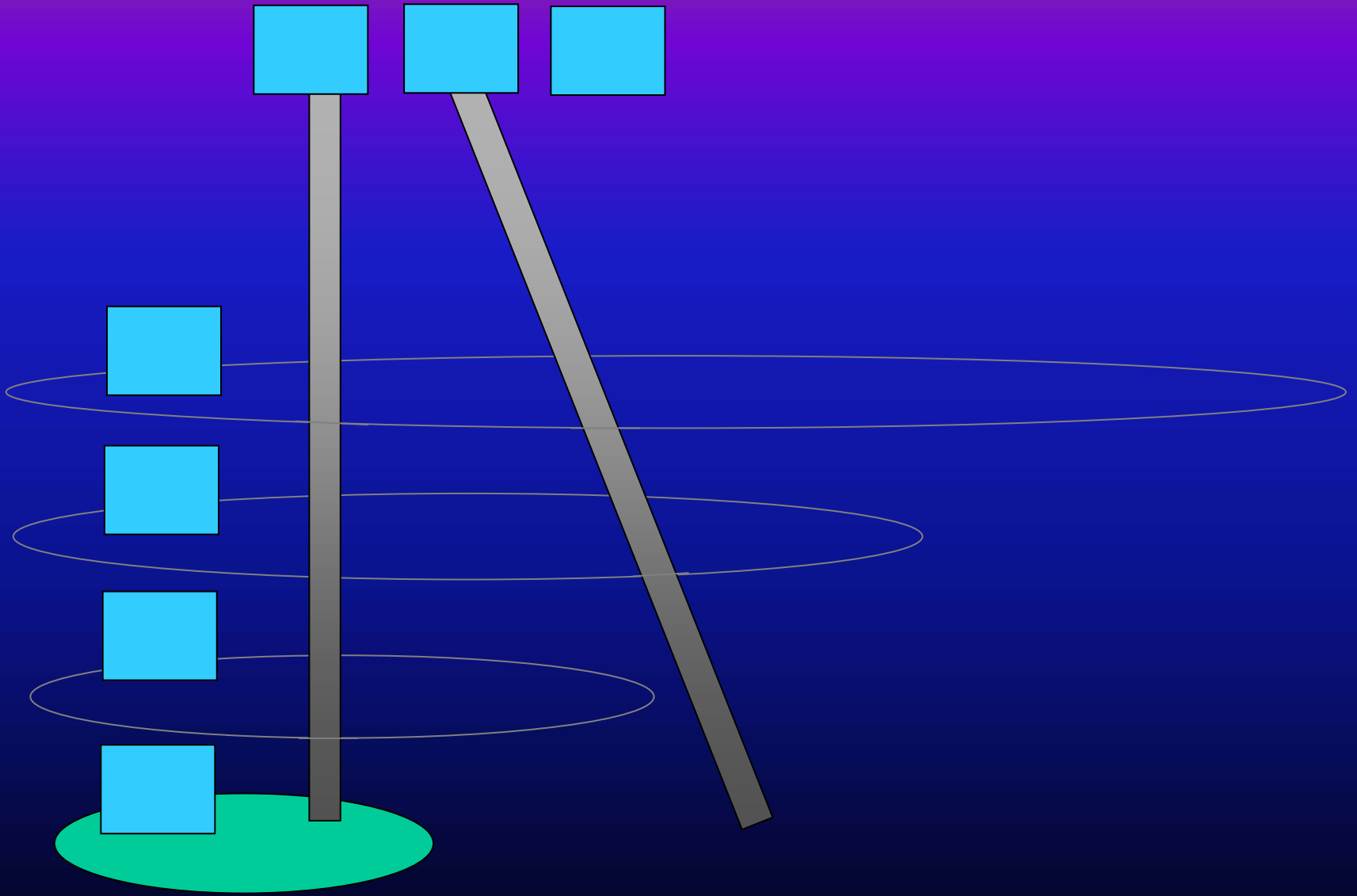
Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 23 AUG 2004		2. REPORT TYPE N/A		3. DATES COVERED -	
4. TITLE AND SUBTITLE Theatre Information Architectures				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Anite Public Sector Ltd				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited					
13. SUPPLEMENTARY NOTES See also ADM001711 Meeting C4ISTAR Requirements: Implementing and Exploiting Technology Solutions, The original document contains color images.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT UU	18. NUMBER OF PAGES 28	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

The ISTAR Operating Environment

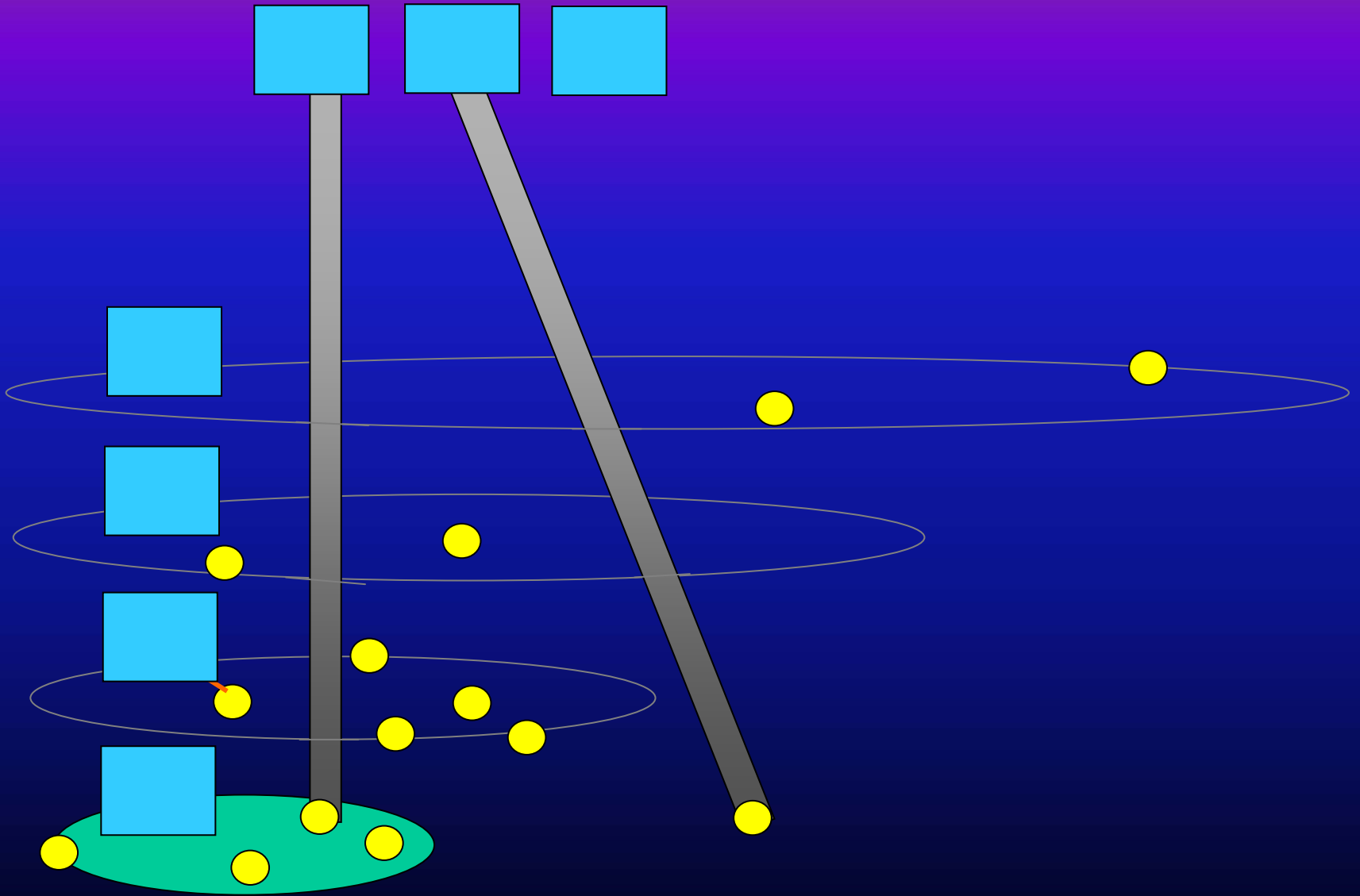
- Since the Cold War:
 - small, fast, surveillance aware targets
 - impact of accountability - collateral damage
 - risk averse conditions
 - multi-sensor platforms and processing
 - near-real time outputs, any time
 - expectations of higher tempo

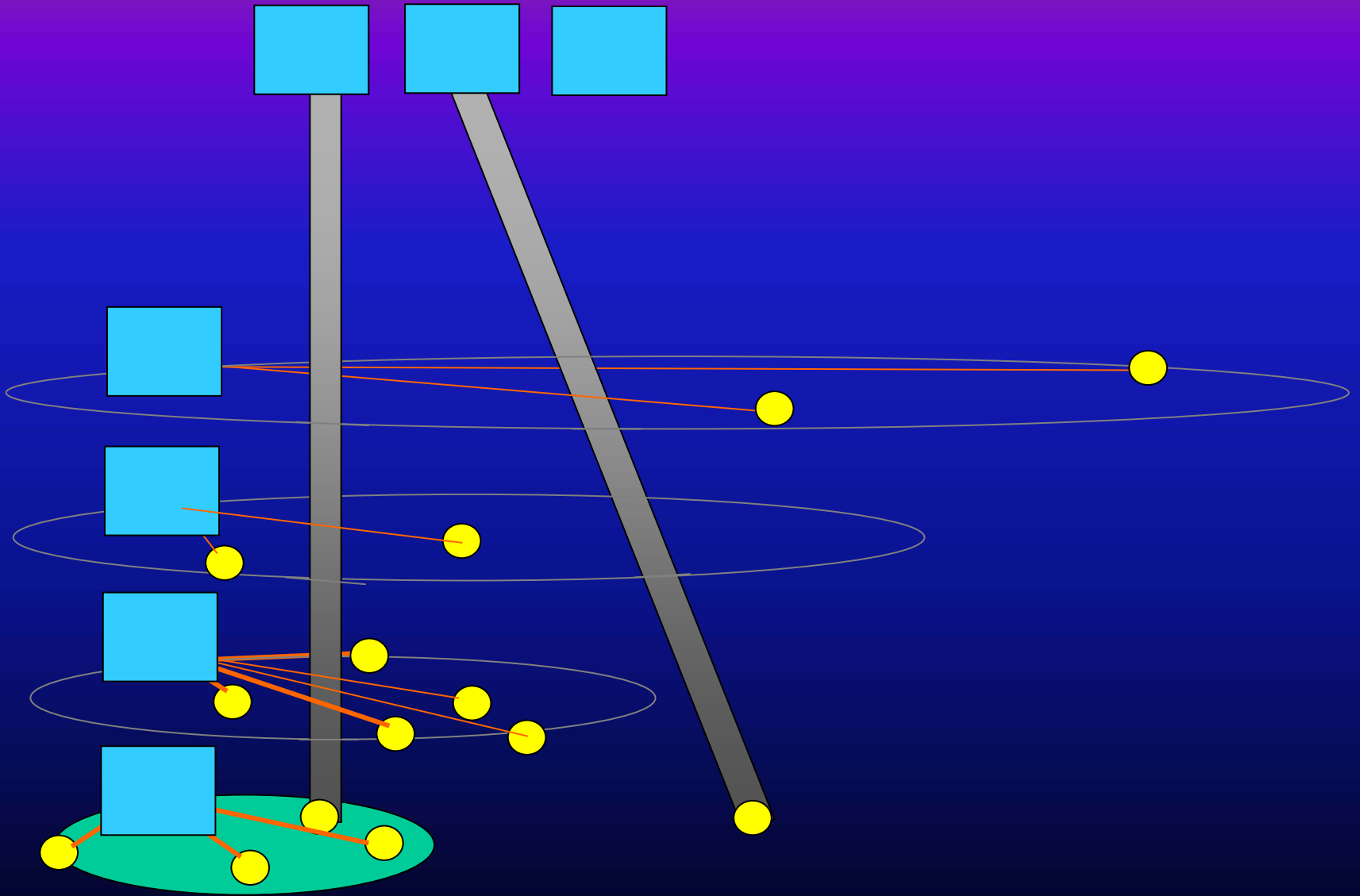


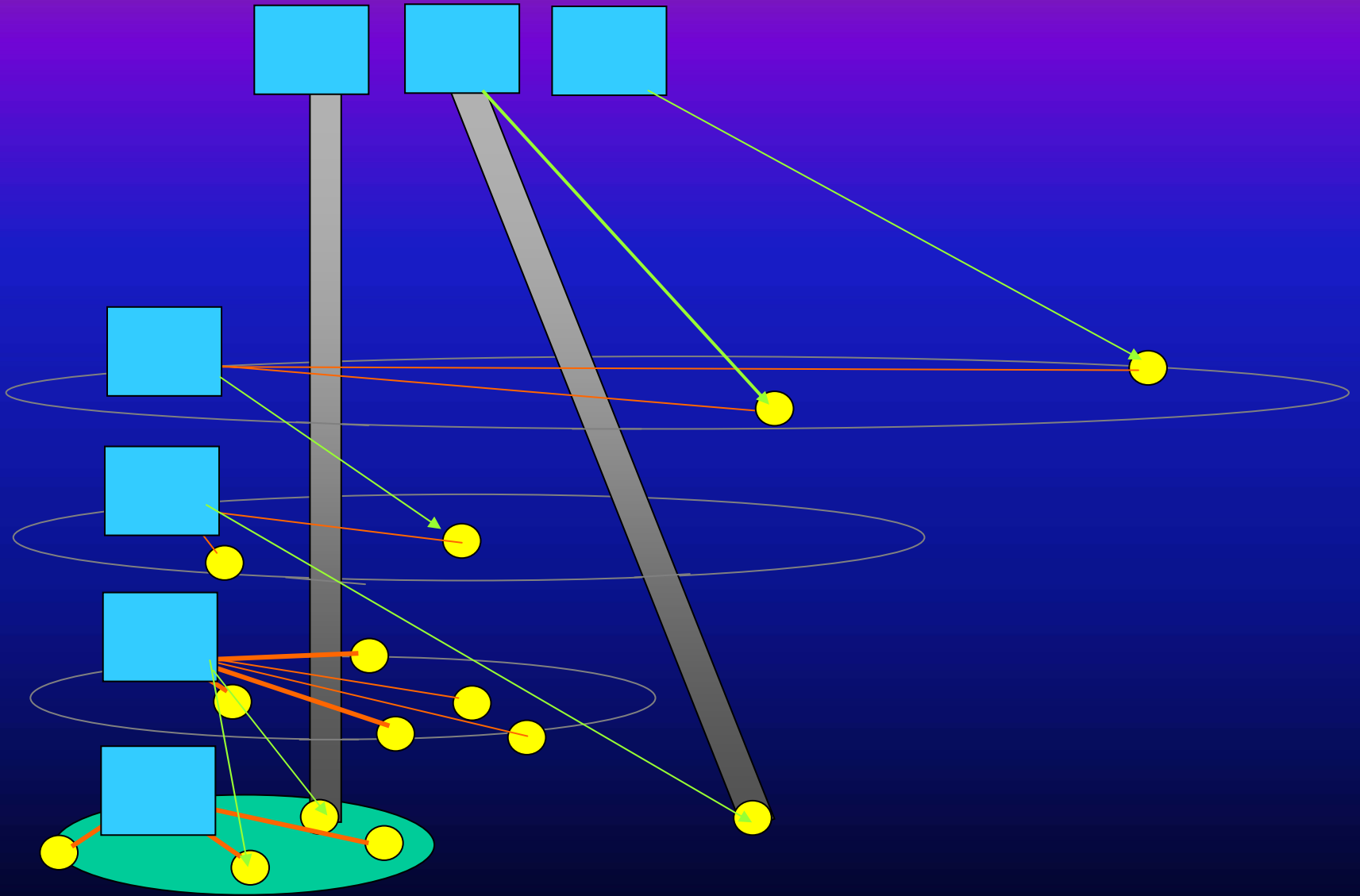


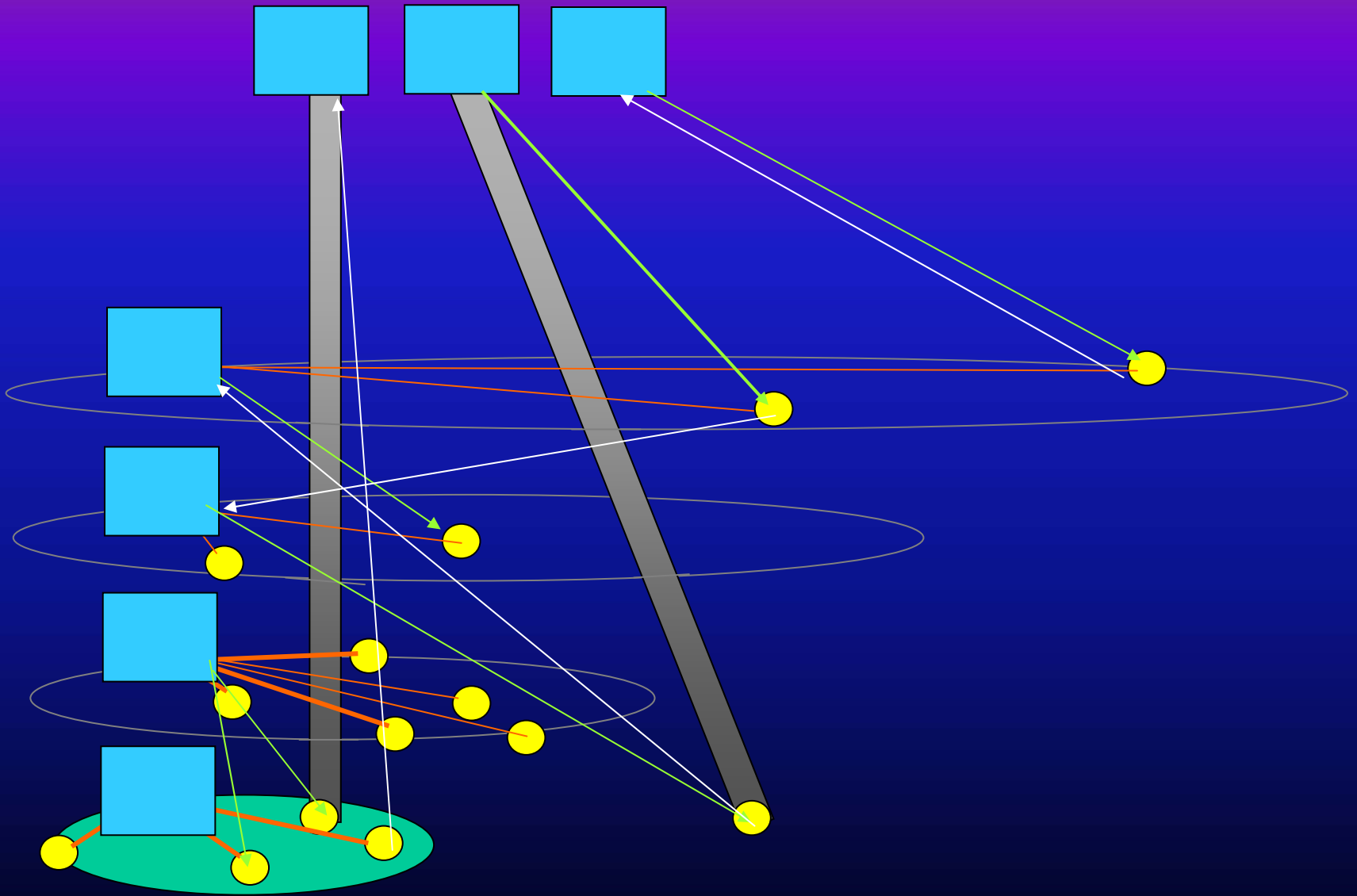


Anite Public Sector Ltd









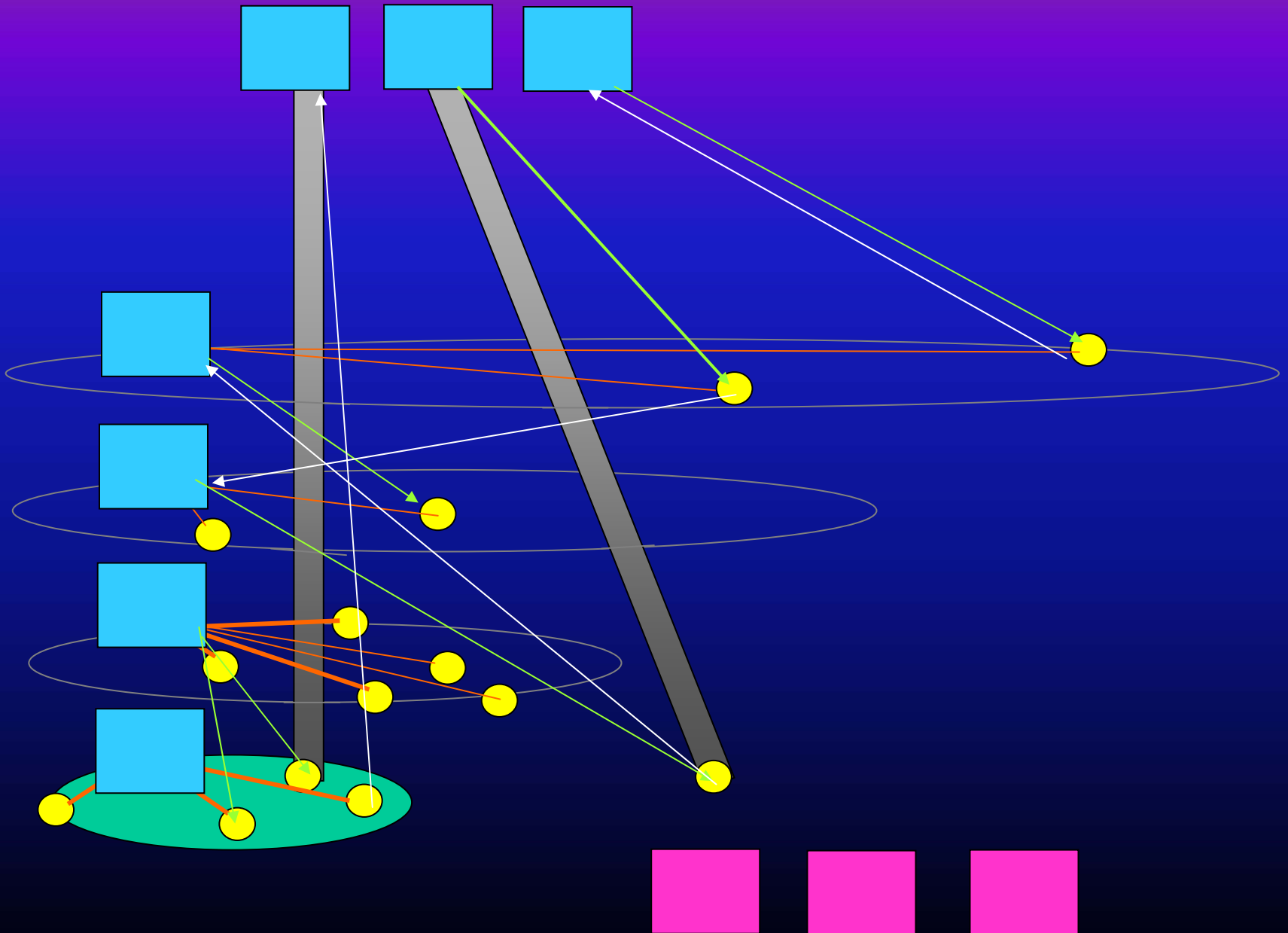


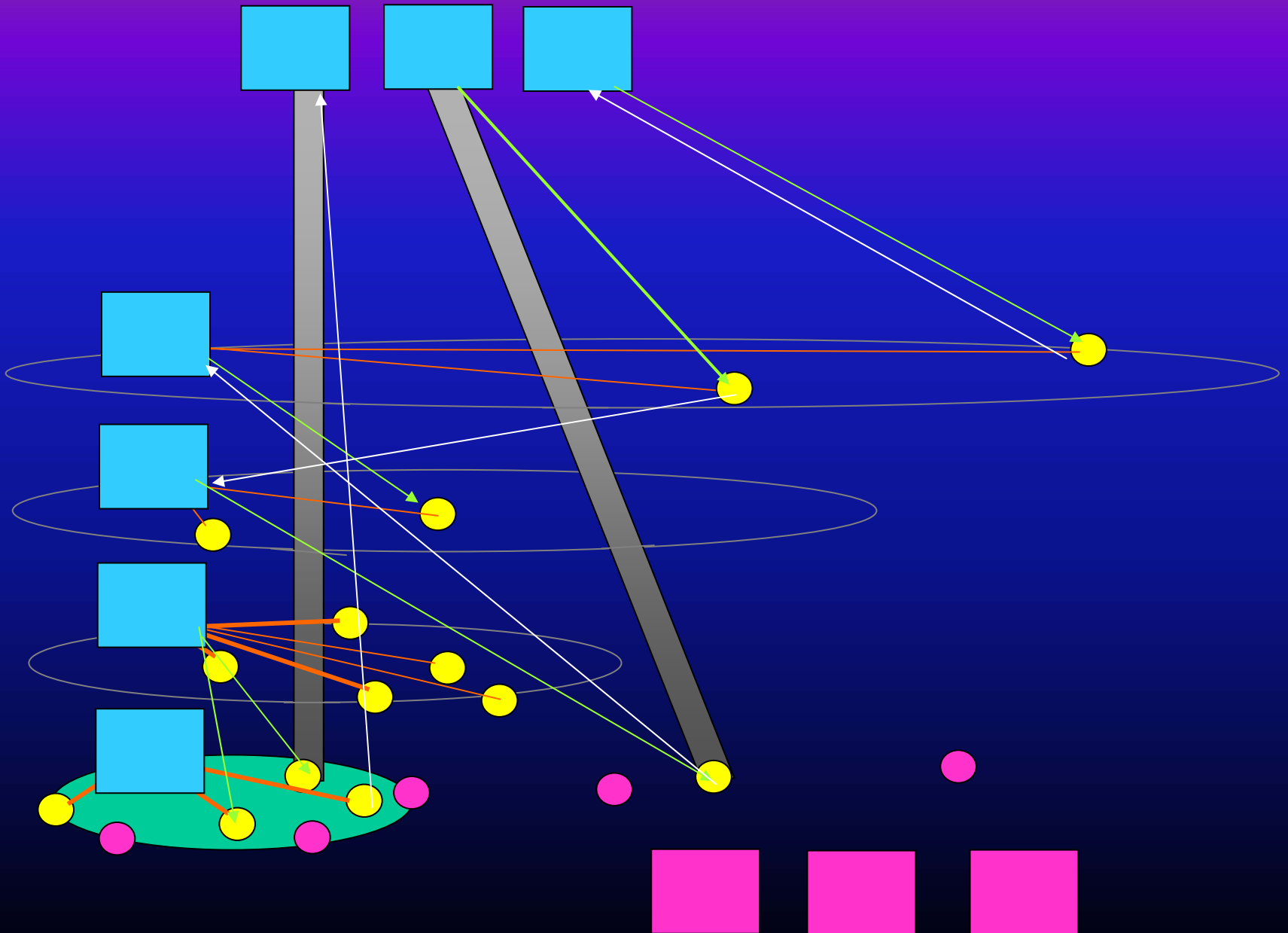
Who has got it

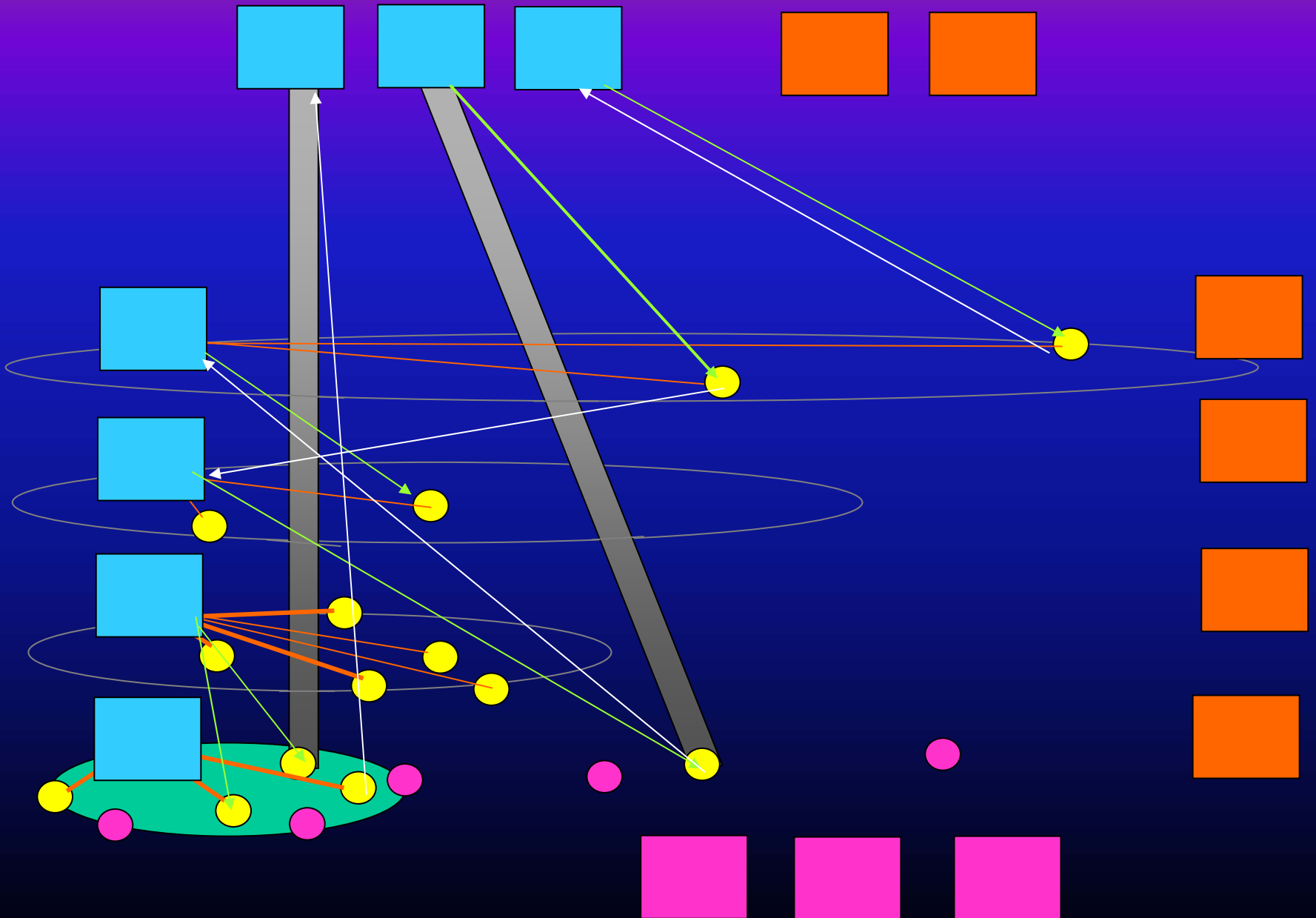
Who wants it

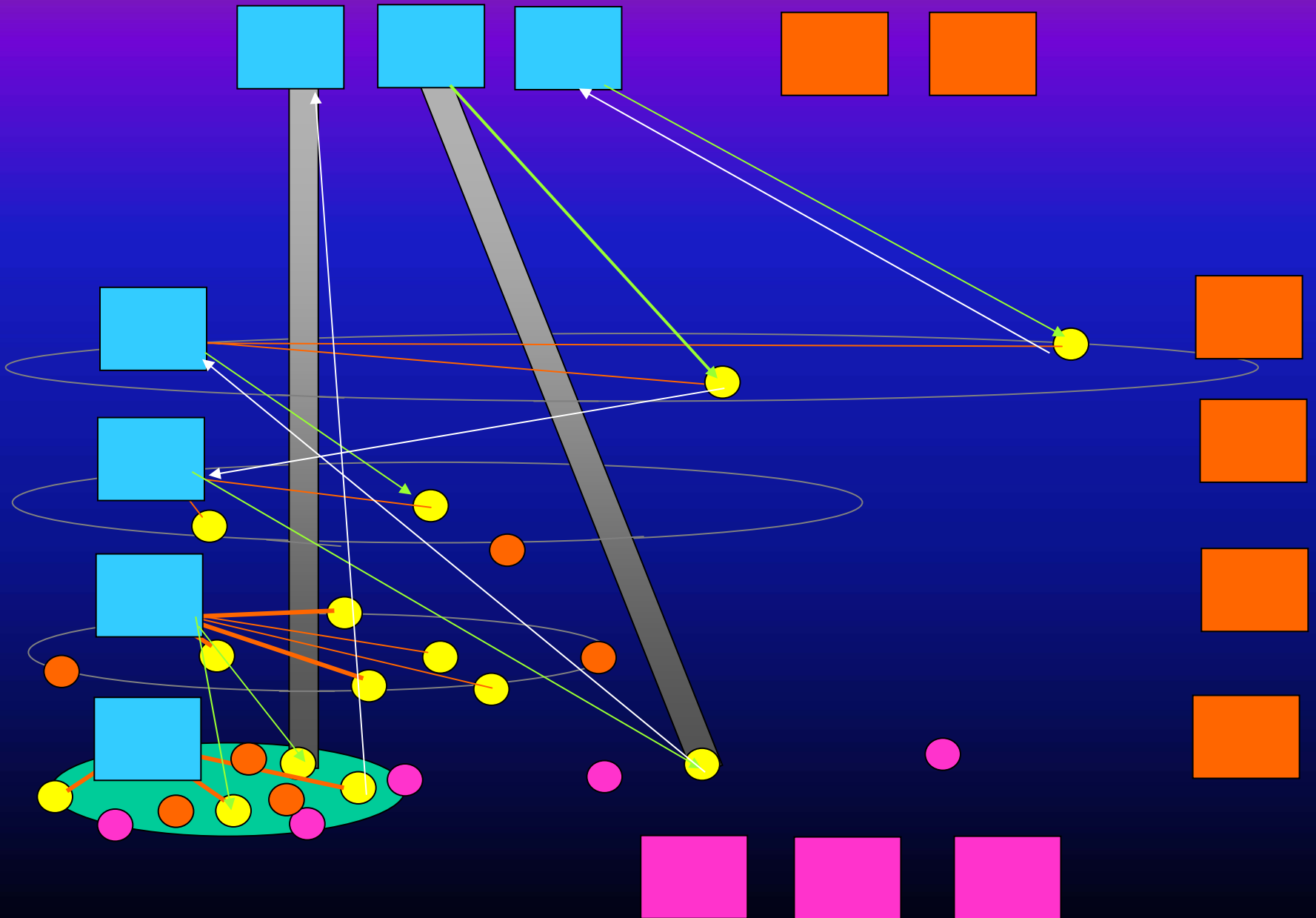
Who knows who has got it


Who knows who wants it



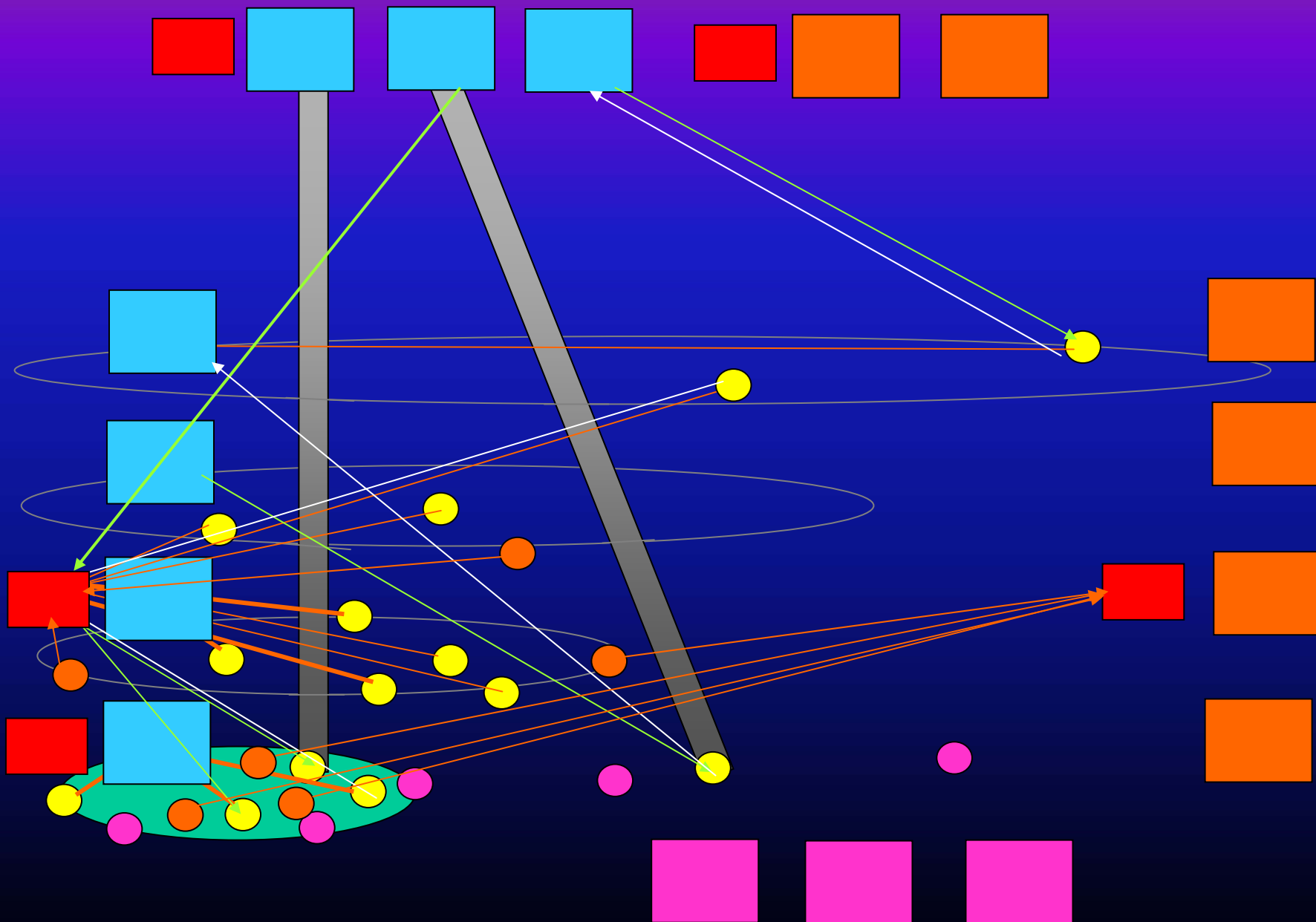


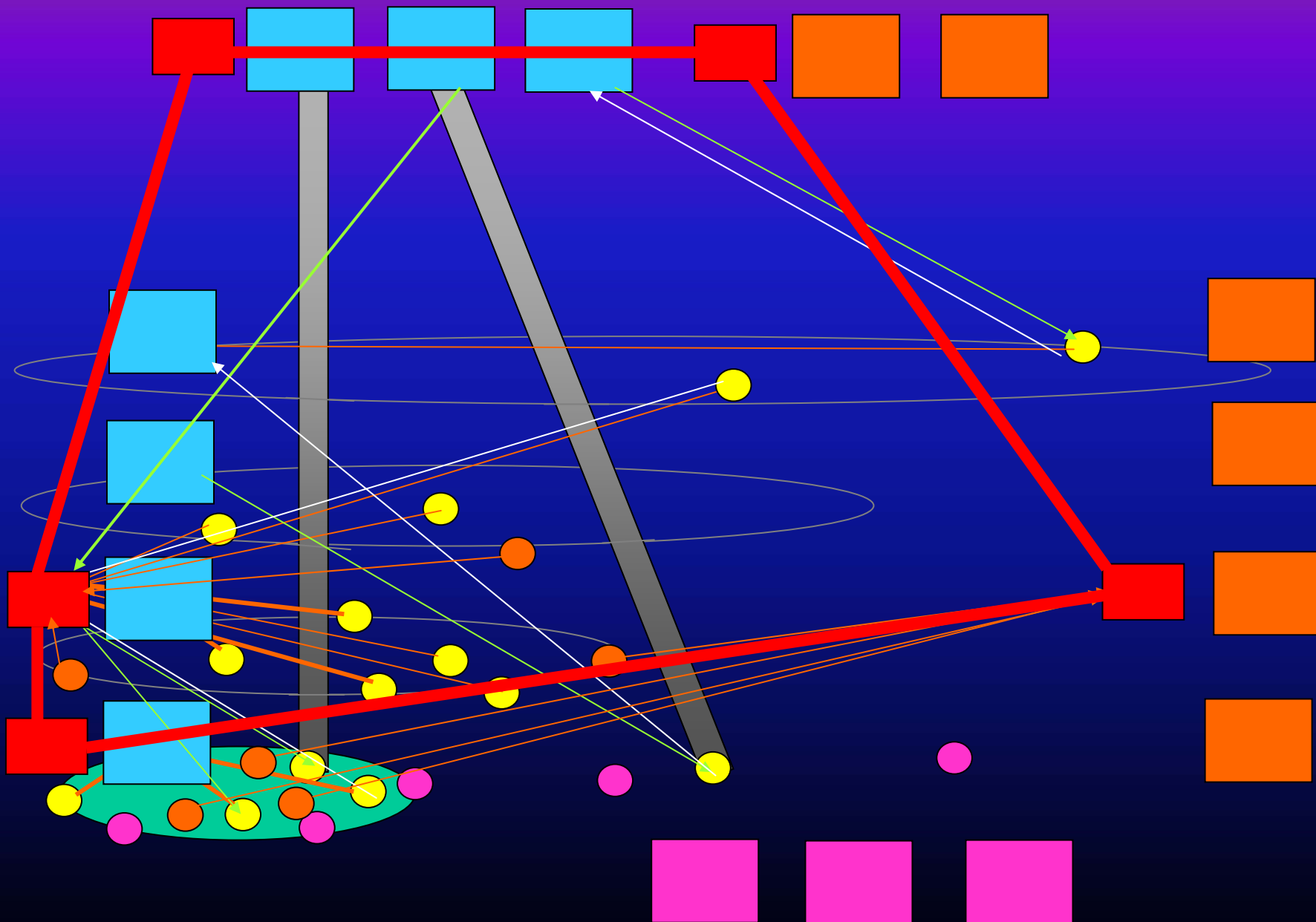




- 
- Federation of sensors/ fusion centres.
 - Use of fusion agents
 - Split-based working
 - Collaborative production
 - Contextually relevant information







Theatre Architecture Problems

- Complicated networks
- Security levels and access rights
- Data v. information v. intelligence
- Timeliness and response
- Quality control
- Directory to Information
- Communities of Interest
- Collaborative working
- Database maintenance
- Double feed back

Other Problems

- Customer 2 is diverse and numerous
- Emerging doctrine, imminent capability
- Operational experience shared thinly
- Wealth of data, limited fusion capability
- Digitising the “enemy” ?
- Counter-measures and deception v. tempo

Theatre Architecture Problems

- Complicated
- Security levels and access rights
- Data v. information v. intelligence
- Timeliness and response
- Quality control
- Directory to Information
- Communities of Interest
- Collaborative working
- Database maintenance
- Double feed back

Theatre Architecture Problems

Operational

- Complicated
- Security levels and access rights
- Data v. information v. intelligence
- Timeliness and response
- Quality control
- Directory to Information
- Communities of Interest
- Collaborative working
- Database maintenance
- Double feed back

Theatre Architecture Problems

- Complicated
- Security levels and access rights
- Data v. information v. intelligence
- Timeliness and response
- Quality control
- Directory to Information
- Communities of Interest
- Collaborative working
- Database maintenance
- Double feed back

Operational

Procedural

Theatre Architecture Problems

- Complicated
- Security levels and access rights
- Data v. information v. intelligence
- Timeliness and response
- Quality control
- Directory to Information
- Communities of Interest
- Collaborative working
- Database maintenance
- Double feed back

Operational

Procedural

Technical

Part of a Solution

- **Where is:**
 - **A concentration of ISTAR expertise?**
 - **The only joint ISTAR training done?**
 - **The only training ISTAR SE?**
 - **The know-how to build an ISTAR testbed?**
 - **A need for a Joint ISTAR training SE?**
 - **A recent operational database (KOSOVO)?**
 - **A facility ready made to run experiments?**

Industry & Malvern

DISC Chicksands

- **Where is:**
 - **there a concentration of ISTAR expertise?**
 - **The only joint ISTAR training done?**
 - **The only ISTAR SE?**
 - **The know-how to build an ISTAR testbed?**
 - **There a need for a Joint ISTAR training SE?**
 - **A recent operational database (KOSOVO)?**
 - **A facility ready made to run experiments?**

Evolution not Revolution

But quickly

Theatre Information Architectures

**Dr Dave Sloggett &
Brig (Retd) Chris Holtom**